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OM protein - protein search, using sw model

Run on: December 26, 2001, 10:33:29 ; Search time 15.89 Seconds
(without alignments)
662.778 Million cell updates/sec

Title: US-09-497-967-7
Perfect score: 2540
Sequence: 1 MKNILVILISLFINQIKS.....QCFANFLSLLLISVYLL 468

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 212252 seqs, 22503292 residues

Total number of hits satisfying chosen parameters: 212252

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA.*
1: /cgn2_6/ptodata/2/1aa/5A_COMB.pap.*
2: /cgn2_6/ptodata/2/1aa/5B_COMB.pap.*
3: /cgn2_6/ptodata/2/1aa/6A_COMB.pap.*
4: /cgn2_6/ptodata/2/1aa/6B_COMB.pap.*
5: /cgn2_6/ptodata/2/1aa/PTCUS_COMB.pap.*
6: /cgn2_6/ptodata/2/1aa/backfiles1.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	200.5	7.9	1345	US-08-977-767-3	Sequence 3, Appl
2	187.5	7.4	801	US-07-906-349A-6	Sequence 6, Appl
3	179.5	7.1	341	US-08-209-521-11	Sequence 11, Appl
4	175.5	6.9	3075	US-08-460-309-5	Sequence 5, Appl
5	175.5	6.9	3075	US-08-125-077-5	Sequence 5, Appl
6	166.5	6.6	969	US-08-284-941-2	Sequence 2, Appl
7	166.5	6.6	969	US-08-447-642-2	Sequence 2, Appl
8	166.5	6.6	969	US-09-236-503-2	Sequence 2, Appl
9	166.5	6.6	969	PCT-US93-02147A-2	Sequence 2, Appl
10	157	6.2	3111	US-08-460-309-4	Sequence 2, Appl
11	157	6.2	3111	US-08-125-077-4	Sequence 4, Appl
12	150.5	5.9	1111	US-08-317-450B-15	Sequence 15, Appl
13	150.5	5.9	1111	US-08-800-593-15	Sequence 15, Appl
14	150.5	5.9	1193	US-08-317-450B-13	Sequence 13, Appl
15	150.5	5.9	1193	US-08-800-593-13	Sequence 13, Appl
16	146	5.7	355	US-08-292-549-6	Sequence 6, Appl
17	146	5.7	355	US-09-006-353A-14	Sequence 14, Appl
18	143.5	5.6	610	US-08-365-470-3	Sequence 3, Appl
19	143.5	5.6	610	US-09-209-668-19	Sequence 19, Appl
20	143.5	5.6	610	US-09-009-490A-89	Sequence 89, Appl
21	141.5	5.6	610	5217870-2	Patent No. 5217870
22	138	5.4	2471	US-08-185-432-16	Sequence 16, Appl
23	138	5.4	2471	US-08-083-590A-19	Sequence 19, Appl
24	138	5.4	2471	US-08-532-384-19	Sequence 19, Appl
25	135.5	5.2	2523	US-08-185-432-18	Sequence 18, Appl
26	132	5.2	1147	US-08-144-121-3	Sequence 3, Appl
27	132	5.2	1147	US-08-735-893-3	Sequence 3, Appl

28 131.5 5.2 314 2 US-08-460-309-19
29 131.5 5.2 314 2 US-08-125-077-19
30 131.5 5.2 1466 6 5256642-6
31 131.5 5.2 1466 6 5472939-6
32 131.5 5.2 1537 6 5256642-5
33 131.5 5.2 1537 6 5472939-5
34 131.5 5.2 1847 6 5256642-10
35 131.5 5.2 1847 6 5472939-10
36 131.5 5.2 2039 6 5256642-2
37 131.5 5.2 2039 6 5472939-2
38 130.5 5.1 581 3 US-08-665-259-23
39 130.5 5.1 581 3 US-08-762-500-23
40 130 5.1 830 6 5378464-2
41 129 5.1 574 6 5378464-3
42 128.5 5.1 830 1 US-08-110-158-4
43 127.5 5.0 581 1 US-08-152-019A-27
44 127.5 5.0 581 3 US-08-482-677-6
45 127.5 5.0 581 3 US-08-650-599A-2

ALIGNMENTS

RESULT 1
US-08-977-767-3
; Sequence 3, Application US/08977767
; Patent No. 5972684
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Yue, Henry
; APPLICANT: Greenwald, Sara
; APPLICANT: Corley, Neil C.
; TITLE OF INVENTION: CARBONIC ANHYDRASE VIII
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/977,767
; FILING DATE: Herewith
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0423 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-853-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1345 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 1532042
US-08-977-767-3

Sequence 19, Appl
Sequence 19, Appl
Patent No. 5256642
Patent No. 5472939
Patent No. 5256642
Patent No. 5472939
Patent No. 5256642
Patent No. 5472939
Patent No. 5256642
Patent No. 5472939
Sequence 23, Appl
Patent No. 5378464
Patent No. 5378464
Sequence 4, Appl
Sequence 27, Appl
Sequence 6, Appl
Sequence 2, Appl

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; LENGTH: 801 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-07-906-349A-6

Query Match          7.4%  Score 187.5; DB 1; Length 801;
Best Local Similarity 25.7%; Pred. No. 2.3e-08;
Matches 111; Conservative 5; Mismatches 212; Indels 103; Gaps 17;

QY 21 ANCPVGTETAGQVDDLG--TPANCVNCQKFNFFYNNAAFVPGAS---TCTPCPKQKDG 76
DB 649 AGCAGCGAGGAGCTGGCTCTGAACACCAATCAACCATCAGGTTCTCTGCTGAGGTG 708
QY 77 AQPNNPATANLVTCNVKCPAG-----TAIAGATDYAAIITECVNCRINFINENAPNF 131
DB 709 CAATCATCCACTTCAACCAAGAACTCTATGGAACCTCAGTCCGCCA-----CC 759
QY 132 AGASTCTACPNRVGGALTAGNAAT--IVACQNVACPTGTALDDGVTTDVRSFTECVK 189
DB 760 AGGGGCCCAA--TGGCGTGGCCATCTCAGCCCTCTTGCAATGT-----803
QY 190 RLNFYNGNNGTFFNPKGSOCTPCPAIKPANVAQATLGNDAITTAOCNVACPDGTISAA 249
DB 804 -----GGCTG-----GTAGCT--CAACCCGTTCTCTCAGAGGCTCTTAACCGTGACA 850
QY 250 GVNWVAQNTCTNCAPNFYNNAPNPNSTCLPCPANKDYGAETAGGAATLAKOCN 309
DB 851 C-----CATCA-----CCCGCATCTCC-----TATAAGAATGATGCC 882
QY 310 IACPDGTAIAGATNYVILQTECLNCAANFYFDGNNFQAGSSRCKACAPANKV-----QGAV 365
DB 883 TAC-----TTTCTTCAAGACCTGAGCGTGGAGCTCCTGTGCCCGGAGTC 926
QY 366 ATAGGTATLIAQALECPAGTIVLTDGTTSTYKQAASECVKCAANFYTTKQTDWVAGIDTC 425
DB 927 CTTTGCTTCAITCA--CCTATCAGGCTCTCTCAGCACCCCCAC--CCTGCT--CGGAGAC 980

QY 426 TSCNKKLTSGA 436
DB 981 TGTACTCTGGA 991

RESULT 2
US-07-906-349A-6
; Sequence 6, Application US/07906349A
; Patent No. 5434064
; GENERAL INFORMATION:
; APPLICANT: Skolnik, Edward Y.
; APPLICANT: Margolis, Benjamin L.
; TITLE OF INVENTION: A NOVEL EXPRESSION-CLONING METHOD FOR
; IDENTIFYING TARGET PROTEINS FOR EUKARYOTIC TYROSINE KINASES AND
; IDENTIFYING TARGET PROTEINS
; TITLE OF INVENTION: TARGET PROTEINS
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Browdy and Neimark
; STREET: 419 Seventh Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/906,349A
; FILING DATE: 30-JUN-1992
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; PRIOR APPLICATION NUMBER: 07/643,237
; FILING DATE: 18-JAN-1991
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
;
; LENGTH: 801 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-07-906-349A-6

Query Match          7.4%  Score 187.5; DB 1; Length 801;
Best Local Similarity 25.7%; Pred. No. 2.3e-08;
Matches 116; Conservative 7; Mismatches 195; Indels 133; Gaps 21;

QY 21 ANCPVGT-----EINTAGQV--DDLGTTPANCVNCQKFNFFYNNAAFVPGASTCTPCPKK 73
DB 253 AGCCTGTGAGGAGTGCAGAACACCGTTTTTC-----TTAATTTGGGTTCGAGC 302
QY 74 DAGAQNPPEPATAN--LVTCNVKCPAGTAIAG--GATDYAAIITECVNCRINFINENAPNF 130
DB 303 GAGACTGTCTCGGACACTCCCTCAGTCTTGTGGTGGCGGCTCACCCCT-----352
QY 131 NAGASTCT--ACPNRVGGALTAGNAATIVACQNVACPTGTALDDGVTTDVRSFTECVK 189
DB 353 GTCACCTCTCTCACTTTGG--TTGGA-----ACTT--TAGGGG-----385
QY 190 RLNFYNGNNGTFFNPKGSOCTPCPAIKPANVAQATLGNDA---TITAOCNVACPDGTI 246
DB 386 -----GTGGGAGGGGGACCGCCCGGAGTGGGAGAGTGAACCAAC--CTT 436
QY 247 SAAGVNNWVAQNTCTNCAPNFYNNAPNPNSTCLPCPANKDYGAETAGGAAT---303
DB 437 GAAA-----TCCCCCA-----CCCTCCCCCGGTTGGATTAAAAATGCC 475
QY 304 LAKOCNIACPDGTAIASGA-----TNYVILQTECLNCAANFYFDGNNFQAG 349
DB 476 AAAACTTACCTATAAATTAAGAAGAGT---TTTATTACAAATTTCAACT-----AAA 526
QY 350 SSRCKACAPANKVQAVATAGTAGTATLIA-----OCALPCPAGTIVLTDGTTSTYKQAASECV 404
DB 527 TTTTACGGTTTGA--ATGATATTTAATTTCTTCTCAAAAATAATGTTTAAATCACTGCT 585
QY 405 KCAANFYTTKQTDWVAGIDTCTSCNKKLTSG 435
DB 586 GTCCTCTT-----TCCCTCCTCTTG 606

;
; RESULT 3
; US-08-209-521-11
; Sequence 11, Application US/08209521
; Patent No. 5922855
; GENERAL INFORMATION:
; APPLICANT: Liskay, Robert M.
; APPLICANT: Bronner, C. Eric
; APPLICANT: Baker, Sean M.
; APPLICANT: Bollag, Roni J.
; APPLICANT: Kolodner, Richard D.
; TITLE OF INVENTION: MAMMALIAN DNA MISMATCH REPAIR GENES
; TITLE OF INVENTION: RMLH1 AND hPMS1
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Kolisch, Hartwell, Dickinson, McCormack &
; ADDRESSEE: Heuser
; STREET: 520 S.W. Yamhill, Suite 200
; CITY: Portland
; STATE: Oregon
; COUNTRY: US
; ZIP: 97204
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/209,521
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/ FILING DATE: 08-MAR-1994
/ CLASSIFICATION: 435
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Van Ryselberghe, Pierre C.
/ REGISTRATION NUMBER: 33,557
/ REFERENCE/DOCKET NUMBER: OHSU 306A
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (503) 224-6655
/ TELEFAX: (503) 295-6679
/ INFORMATION FOR SEQ ID NO: 11:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 341 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: cDNA
/ POSITION IN GENOME:
/ MAP POSITION: 3p21.3-23
/ US-08-209-521-11

Query Match          7.1%; Score 179.5; DB 2; Length 341;
Best Local Similarity 25.8%; Pred. No. 3.8e-08;
Matches 98; Conservative 9; Mismatches 130; Indels 143; Gaps 20;

QY 134 ASTCTACPNVRVGGALTAGNAATVACQNVACPTGTALDDGVTTDYVRSFTECVKRLNF 193
Db 3 ATTCAAAG-----AGATTGGAAATGAGTAACAT-----GATTATTACT-CATC----- 47

QY 194 YVNGNNGTTPNPKSQCT-PCPAIKPANVAQATLGNDAIT-----TAQCNV 239
Db 48 -----TTTTGGTATCTAACAAAAGAGATCTGGATATTGTATGAAAGGKTCACT 99

QY 240 ACPDGTISAAGYNNVVAQNTCTNCAPNFYNNAPNPNPNCSTCLPCPANKDYGAETAG 299
Db 100 ACTAGTAA-----CTGCA-----GTC-----CTTTGAGAGADTTTA 130

QY 300 G--AATLAKQCNAC-----PDGTA-----IASGATNYVILQTECLNCAA 337
Db 131 GCCAGTATTTTACCTATCTCTCTGAGTGAGGTAAGCTAAAGAT-----TCAA 180

QY 338 NFYFGNNFQAGSSR--CKACPAKPVGAVATAG-----GTATLIAQ 377
Db 181 GAAATGTTAAATATCTCTCTGAGTGAGATCTGTTGTCATTTGTTAGTATGTTCT 240

QY 378 CALECPAG-----TVLTDGTTSTYKQAASECVKCAANFYTTKQTDW 418
Db 241 CAACATAGATAAATAAGGTTTGGTACCTTTTACTTGTGTAATGATGCAAA--ATGTATGC 298

QY 419 VAGIDTCT--SCNKKLTSGA 436
Db 299 AAA--TCIGHGCAAACTTAA 316

RESULT 4
US-08-460-309-5
; Sequence 5, Application US/08460309
; Patent No. 5837496
; GENERAL INFORMATION:
; APPLICANT: Engvall, Eva
; APPLICANT: Leivo, Ilmo
; TITLE OF INVENTION: Nucleic Acids Encoding Merosin, Merosin
; TITLE OF INVENTION: Fragments and Uses Thereof
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
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/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/460,309
/ FILING DATE:
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/125,077
/ FILING DATE: 22-SEP-1993
/ APPLICATION NUMBER: US PCT/US 94/10730
/ FILING DATE: 21-SEP-1994
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/472,319
/ FILING DATE: 30-JAN-1990
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/919,951
/ FILING DATE: 27-JUL-1992
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Campbell, Cathryn A.
/ REGISTRATION NUMBER: 31,815
/ REFERENCE/DOCKET NUMBER: P-LA 9721
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (619) 535-9001
/ TELEFAX: (619) 535-8949
/ INFORMATION FOR SEQ ID NO: 5:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 3075 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ US-08-460-309-5
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Query Match          6.9%; Score 175.5; DB 2; Length 3075;
Best Local Similarity 21.2%; Pred. No. 1.1e-06;
Matches 110; Conservative 44; Mismatches 187; Indels 177; Gaps 30;

QY 18 IKSANCPVGTETNTAGQVDDLTGPANCVNCKNFYNNAAAFVPGASTCTPCQKKDAGA 77
Db 706 VEHCECPGY-----TGTSCESCLSGYRVDGLF---GGICQPCCHGHA-- 748

QY 78 QPNPPATANLVTCNVKCPAGTAIAGGATDYAAIITCVNCRINFYNENAPNENAGASTC 137
Db 749 -----AECNVH---GVCI---ACAHTTGVHCEQCLFCFYGEPSRGTGPGCQPC 791

QY 138 TACPVRVGGALTAGNAATVACQNVACPTGTALDDG--VTTDYVR---SFTCEVKRLN 192
Db 792 -ACPL-----TTAS--NNFSPT-CHLNDGDEVVCDWCAPGYSAGWCERCADG 834

QY 193 FYNGNNGTTPNPKSQCTPCPAIKPANVAQATLGNDAITTAQCNVACPDGTISAAGY 252
Db 835 YYGN-----PTVPGES-CVPCDC--SGNVDPSEAGHCDVSTGEC--LKCLGNTDGA---- 880

QY 253 NVAQNTCTNCAPNFYNN--NAPN-----FNPNSTCLPCPANKD-- 291
Db 881 -----HCERCADGFYGDVATKACNRACBCHVKGSHSAVCHLETGLCDCKPNVTGQCD 933

QY 292 -----YGAETAGGAATLAKQCNACPDGTATASGATNY-----VILQTECLNCAA 338
Db 934 QCLHGYGLDSGHG-----CRPCN--CSVAGSVSDGCTDEGQCHCVPGVAGKRCRCAHG 986

QY 339 FYDGNNGFQAGSSRCKACPAKPVGAVATAGGTATLIAQCALECPAGT-----VLTG 392
Db 987 FY-----AYQDGS--CTPCDCPHQNTCDPETG-----ECV--CPHTGVKCECEDEGH 1032

QY 393 TSYKQAASECVKCAANFYTTKQTDWVAGIDTCTS-----C 428
Db 1033 WGYDAEYGCQACNCSLVGSHHRCVDVVTGHCCKCKFGGRACVQCSGLGYRDFPCVPCDC 1092

QY 429 NKKLTSGAEANLPES-----AKNNT---QCD 451
Db 1093 DLRGTSGDACNLSEGLGCGVETGTGACPKCNKVFPGPOCN 1130
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Db 881 -----HCERCADGFYGDVATKNCRACECHVKSHSAVCHLEIGLCLDCRPNVTGQOCD 933
QY 292 -----YGAETAGGAATLAKOCNIACPDGTAIASGATNY-----VILQTECLNCAAN 338
Db 934 OCLHGYGLDSHG-----CRPCN--CSVAGSVSDGCTDEGCHCVPGVAGKRCDCRCAHG 986
QY 339 FYFDGNFNFOAGSSRCRKACAPANKVQGAATAGTATLAIACALECPAGT-----VLTGDT 392
Db 987 FY-----AYDGS--CTPCDCHPTQNTCDPETG-----ECV--CPPHQTQGVKCECEDGH 1032
QY 393 TSTYKQAASECYKCAANFYTTKOTDWWAGIDTCTS-----AKKNI---QCD 451
Db 1033 WGYDAEVGCOACNCSLVGSTHHRCDVVTGHCCKSKFGRACVQCSLGYRDFDFDCVPCDC 1092
QY 429 NKLTSGABANLPES-----AKKNI---QCD 451
Db 1093 DLRGTSGDACNLEQGLCGVEETGACPKENVFGPCN 1130
RESULT 6
US-08-284-941-2
; Sequence 2, Application US/08284941
; Patent No. 5863756
; GENERAL INFORMATION:
; APPLICANT: BARR, PHILIP J
; APPLICANT: KIEFER, MICHAEL C
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR PACE 4 AND
; TITLE OF INVENTION: PACE 4.1 GENE AND POLYPEPTIDES IN CELLS
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: COOLEY GODWARD CASTRO HUDDLESON & TATUM
; STREET: FIVE PALO ALTO SQUARE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94306
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/284,941
; FILING DATE: 2 August 1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: NEELEY PH.D., RICHARD L.
; REGISTRATION NUMBER: 30092
; REFERENCE/DOCKET NUMBER: CHIR-009/0105
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 843-5070
; TELEFAX: (415) 857-0663
; TELEX: 380816 COOLEY PA
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 969 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-284-941-2
Query Match 6.6%; Score 166.5; DB 2; Length 969;
Best Local Similarity 20.7%; Pred. No. 2.1e-06;
Matches 86; Conservative 53; Mismatches 135; Indels 141; Gaps 25;
QY 70 PQKDKAGAPNPATANLV--TQCNVKCPAGTAAGATDYAAIITECVNCRINFYNENA 127
Db 672 PEDEEDYTAQSTPGSANILQTSVCHPEC-GDKGCDGPNAD-----QCLNC-VHF---SL 720
QY 128 PNFENAGASTCTACPNRVGSGALTAGNAATVACQNVACPTGTALDDGVTTDYVRSFTCEV 187

Db 721 GSVKTSRKCVSVCLGYFG-----DTAARRCRRCHKGCETCSS-----RAATQCL 765
QY 188 KCLNLFYNGNGNTFNPNGKSC--TPCPAIPKPNVAQATLGNDAITTAQCNVACPDTI 246
Db 766 SCRRGFYHH--QEMNT-----CVTLCPAGFYADESKN-----CLKCHPSC----- 804
QY 247 SAAGVNNVAQNTACTNAPNFPNPNSTCLP-CPANKDYGAETAGGAATLA 305
Db 805 -----KKCVDEPEKCTVC-----KEGFSIARGSCIPDCPEPGYFDSLEIRCG----- 846
QY 306 KOCNIACPDGTATASGATNYVILQTECLNCAANFYD-----GNNFOAGS-----S 351
Db 847 -ECHHTC--GTCVGP-----REECIHCAKNFHFHDWKVCPACGEGFYPEEMPGLPHK 896
QY 352 RCKACPNKVOGAVATAGTATLIAQCALECPAGVLTGTTSTYKQAASCVKCAANFY 411
Db 897 VCRRCDEN-----CLSC-AG-----SSRNCSCRTGTF- 922
QY 412 TTKQTDWAGIDTCTSCNKKLT-SGAEANLPESAKKNIQCD---FANFLSISLL 462
Db 923 -----TQGTSCITNHTCSNADETFCEMVKSNRLCERKLFIOFCRTCLL 967

RESULT 7

US-08-447-642-2
; Sequence 2, Application US/08447642
; Patent No. 5989890
; GENERAL INFORMATION:
; APPLICANT: BARR, PHILIP J
; APPLICANT: KIEFER, MICHAEL C
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR PACE 4 AND
; TITLE OF INVENTION: PACE 4.1 GENE AND POLYPEPTIDES IN CELLS
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: COOLEY GODWARD CASTRO HUDDLESON & TATUM
; STREET: FIVE PALO ALTO SQUARE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94306
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/447,642
; FILING DATE: 23-MAY-1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/284,941
; FILING DATE: 2 August 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: NEELEY PH.D., RICHARD L.
; REGISTRATION NUMBER: 30092
; REFERENCE/DOCKET NUMBER: CHIR-009/01US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 843-5070
; TELEFAX: (415) 857-0663
; TELETYPE: 380816 COOLEY PA
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 969 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-447-642-2

Query Match 6.6%; Score 166.5; DB 2; Length 969;
Best Local Similarity 20.7%; Pred. No. 2.1e-06;
Matches 86; Conservative 53; Mismatches 135; Indels 141; Gaps 25;

QY 70 POKKDAGAOPNPATANLV--TQCNVKCPAGTATAGGATDYAAIITECVNCRINFYNENA 127
Db 672 PEDEEDYTAQSTFGSANILQTSVCHPEC-GDKGCDGNAD-----OCLNC-VHF---SL 720
QY 128 PNFNAGASTCTACPNVRVGGALTAGNAATIVAQCNVACPTGTALDDGVTTDYVRSFTCEV 187
Db 721 GSVKTSRKCVSVCLGYFG-----DTAARRCRRCHKGCETCSS-----RAATQCL 765
QY 188 KCLNLFYNGNGNTFNPNGKSC--TPCPAIPKPNVAQATLGNDAITTAQCNVACPDTI 246
Db 766 SCRRGFYHH--QEMNT-----CVTLCPAGFYADESKN-----CLKCHPSC----- 804
QY 247 SAAGVNNVAQNTACTNAPNFPNPNSTCLP-CPANKDYGAETAGGAATLA 305
Db 805 -----KKCVDEPEKCTVC-----KEGFSIARGSCIPDCPEPGYFDSLEIRCG----- 846
QY 306 KOCNIACPDGTATASGATNYVILQTECLNCAANFYD-----GNNFOAGS-----S 351
Db 847 -ECHHTC--GTCVGP-----REECIHCAKNFHFHDWKVCPACGEGFYPEEMPGLPHK 896
QY 352 RCKACPNKVOGAVATAGTATLIAQCALECPAGVLTGTTSTYKQAASCVKCAANFY 411
Db 897 VCRRCDEN-----CLSC-AG-----SSRNCSCRTGTF- 922
QY 412 TTKQTDWAGIDTCTSCNKKLT-SGAEANLPESAKKNIQCD---FANFLSISLL 462
Db 923 -----TQGTSCITNHTCSNADETFCEMVKSNRLCERKLFIOFCRTCLL 967

RESULT 8

US-09-236-503-2
; Sequence 2, Application US/09236503
; Patent No. 6277590
; GENERAL INFORMATION:
; APPLICANT: BARR, PHILIP J
; APPLICANT: KIEFER, MICHAEL C
; TITLE OF INVENTION: Compositions and Methods for PACE 4 and 4.1 Gene and
; TITLE OF INVENTION: Polypeptides in Cells
; FILE REFERENCE: CHIR-009/040US
; CURRENT APPLICATION NUMBER: US/09/236,503
; CURRENT FILING DATE: 1999-01-25
; EARLIER APPLICATION NUMBER: 08/447,642
; EARLIER FILING DATE: 1995-05-23
; EARLIER APPLICATION NUMBER: 08/284,941
; EARLIER FILING DATE: 1994-08-02
; EARLIER APPLICATION NUMBER: 07/848,629
; EARLIER FILING DATE: 1992-03-09
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 2
; LENGTH: 969
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-236-503-2

Query Match 6.6%; Score 166.5; DB 4; Length 969;
Best Local Similarity 20.7%; Pred. No. 2.1e-06;
Matches 86; Conservative 53; Mismatches 135; Indels 141; Gaps 25;

QY 70 POKKDAGAOPNPATANLV--TQCNVKCPAGTATAGGATDYAAIITECVNCRINFYNENA 127
Db 672 PEDEEDYTAQSTFGSANILQTSVCHPEC-GDKGCDGNAD-----OCLNC-VHF---SL 720
QY 128 PNFNAGASTCTACPNVRVGGALTAGNAATIVAQCNVACPTGTALDDGVTTDYVRSFTCEV 187
Db 721 GSVKTSRKCVSVCLGYFG-----DTAARRCRRCHKGCETCSS-----RAATQCL 765
QY 188 KCLNLFYNGNGNTFNPNGKSC--TPCPAIPKPNVAQATLGNDAITTAQCNVACPDTI 246
Db 766 SCRRGFYHH--QEMNT-----CVTLCPAGFYADESKN-----CLKCHPSC----- 804
QY 247 SAAGVNNVAQNTACTNAPNFPNPNSTCLP-CPANKDYGAETAGGAATLA 305

Wed Dec 26 12:01:32 2001

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805 -----KKVDPEKCTVC-----KGFSLARGSCIPDCEPGTYFDSLIRCG----- 846
QY 306 KOCNTACPDGTATAGATNYVILQTECLNCAANYFD-----GNFQAGS-----S 351
DB 847 -ECHHTC--GTCVGP-----REECIHCAKNFHFDWKVCVPCAGSGFYPEMPGLPHK 896
QY 352 RCKACPAKQVAVATAGGTATLIAQAACALCPAGTVLTDGTTSTYKQAASCVKCAANYF 411
DB 897 VCRCDN-----CLSC-AG-----SSRNCCKTGF- 922
QY 412 TTKQTDWVAGIDTCTSNCKLT-SGAEANLPESAKKNIOCD---FANFLSLSLL 462
DB 923 -----TOLGTSCTIHTCSNADETFCFEMVKNLRCERKLFIOFCCRTCLL 967

RESULT 9
PCT-US93-02147A-2
; Sequence 2, Application PC/TUS9302147A
; GENERAL INFORMATION:
; APPLICANT: BARR, PHILIP J
; APPLICANT: KIEFER, MICHAEL C
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR PACE 4 AND
; TITLE OF INVENTION: PACE 4.1 GENE AND POLYPEPTIDES IN CELLS
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: COOLEY GODWARD CASTRO HUDDLESON & TATUM
; STREET: FIVE PALO ALTO SQUARE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94306
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/02147A
; FILING DATE: 19930309
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/848,629
; FILING DATE: 09-MAR-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: NEELEY PH.D., RICHARD L
; REGISTRATION NUMBER: 30092
; REFERENCE/DOCKET NUMBER: CHIR-009/000S
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 494-7622
; TELEFAX: (415) 857-0663
; TELEX: 380816 COOLEY PA
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 969 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; PCT-US93-02147A-2

Query Match 6.68; Score 166.5; DB 5; Length 969;
Best Local Similarity 20.78; Pred. No. 2.le-06;
Matches 86; Conservative 53; Mismatches 135; Indels 141; Gaps 25;

QY 70 POKKDQAGNPDPATANLV--TQCNVKCPAGTATAGATDYAAILTECVNCRINENENA 127
DB 672 PEDEEDYTAQSPGSAILOTSVCHPEC-GDKGDCGNAD-----QCLNC-VHF---SL 720
QY 128 PNFNAGASTCTACPNRYNGGALTAGNAATIVAQCNVACPTGTALDDGVTTDYVRSFTECV 187
DB 721 GSVKTSRKCVCVCLPYFG-----DTAARRCRRCHKGCETCSS-----RAATQCL 765
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QY 198 KRLNFYNGNGNTFPNPGKSQC-TPCPAIPKANVAQATLGNDAITTAQCNCVACPDGTI 246
DB 766 SCRRGFYHH-QEMNT-----CVTLCPAGFYADESQKN-----CLKCHPSC----- 804
QY 247 SAAGYNNVNAQNTCTNCAPNFYNNNAPNPNNGNSTCLP-CPANKDYGAETAGGAATLA 305
DB 805 -----KKVDPEKCTVC-----KGFSLARGSCIPDCEPGTYFDSLIRCG----- 846
QY 306 KOCNTACPDGTATAGATNYVILQTECLNCAANYFD-----GNFQAGS-----S 351
DB 847 -ECHHTC--GTCVGP-----REECIHCAKNFHFDWKVCVPCAGSGFYPEMPGLPHK 896
QY 352 RCKACPAKQVAVATAGGTATLIAQAACALCPAGTVLTDGTTSTYKQAASCVKCAANYF 411
DB 897 VCRCDN-----CLSC-AG-----SSRNCCKTGF- 922
QY 412 TTKQTDWVAGIDTCTSNCKLT-SGAEANLPESAKKNIOCD---FANFLSLSLL 462
DB 923 -----TOLGTSCTIHTCSNADETFCFEMVKNLRCERKLFIOFCCRTCLL 967

RESULT 10
US-08-460-309-4
; Sequence 4, Application US/08460309
; Patent No. 5837496
; GENERAL INFORMATION:
; APPLICANT: Edqvall, Eva
; APPLICANT: Leivo, Ilmo
; TITLE OF INVENTION: Nucleic Acids Encoding Merosin, Merosin
; TITLE OF INVENTION: Fragments and Uses Thereof
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/460,309
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/125,077
; FILING DATE: 22-SEP-1993
; APPLICATION NUMBER: US PCT/US 94/10730
; FILING DATE: 21-SEP-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/472,319
; FILING DATE: 30-JAN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/919,951
; FILING DATE: 27-JUL-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LA 9721
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3111 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; US-08-460-309-4
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Query Match      6.2%; Score 157; DB 2; Length 3111;
Best Local Similarity 18.5%; Pred. No. 6.8e-05;
Matches 98; Conservative 47; Mismatches 164; Indels 222; Gaps 28;

QY 18 IKSANCPVGTETNTAGQVDDLTGPANVCNCKNFYNNAAAFVPGASTCTPCPQKKDAGA 77
Db 721 VEVQCQPPGY-----TGSSCESCPHRRVNGTIF--GGICEPC----- 757

QY 78 QNPPTANLVTOCNVKCPAGTAAGATDYAAIITECVNCRIN-----FYNE 125
Db 758 -----QC-----FGHAESCDDVTGECLNCKDHTGGYCKCLPFGFYGE 795

QY 126 NAPFNAGASTCTACPVNRVGGALTAGNAATIVAOQNVACPTGTALDDGVTTDYVRSFTE 185
Db 796 PTKGTSEDCQPC-ACPLN-----IPSNFES---PTCHLDRSLG-LICDGCPCVGY--TGPR 843

QY 186 CVKCRNLNYYNGNNGTFFNPFGKSQCTPCPAIKPANVAQAATLGNDAITTAQCN-----V 239
Db 844 CERCAEGYF-----GQPSVPGGS-CQPC-----QCNDNLDFSIPGSCDSLGSCL 887

QY 240 ACPDGTISAAGVNNVAQNTCTNCAPNFYNNAPNFNPGNSTCLPCPANKDYGAETAG 299
Db 888 ICKPGT-----TGRYCELCADGYFGDAVDKNN-----CQPCRCN-----AG 923

QY 300 G-----AATLAKQCNIACPDGTATAGATNYV----- 326
Db 924 GSFSEVCHSQTGQCECRANVOGQRC-D-KKAGTFLQSGARGCVCPCNCNSFGSKSFDCEES 982

QY 327 -----ILOTECLNCAANFYFDGNNFOAGSSRCKACPANKVOGAVATAGGTATLIAQC 378
Db 983 GQWCQCPGVTKKCDRCAHGYP---NFQEGG--CTACECSHLGNNDPKTG-----RC 1030

QY 379 ALECPAGVLTDTSTYKQAASECVKCAANFY-----TTKQTDWVAGIDT 424
Db 1031 I--CPPNTI-----GEKCKCAPNTWGHSTITGCKACNCSTVGSLLDFQCNVNT 1076

QY 425 -----CTSCNKK-----LTSGAEANLPESAKNKIQC 450
Db 1077 GQCNCHPKFSGAKTECSRGHWNYPNCNLDCFLPGLGTATTCDSSETKKCSC 1127

RESULT 11
US-08-125-077-4
; Sequence 4, Application US/08125077
; Patent No. 5872231
; Patent No. 5872231 5840863
; GENERAL INFORMATION:
; APPLICANT: Engvall, Eva
; APPLICANT: Leivo, Ilmo
; TITLE OF INVENTION: Nucleic Acids Encoding Merosin, Merosin
; TITLE OF INVENTION: Nucleic Acids Encoding Merosin, Merosin
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/125,077
; FILING DATE: 22-SEP-1993
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US PCT/US 94/10730
; FILING DATE: 21-SEP-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/472,319
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; FILING DATE: 30-JAN-1990
; PRIOR APPLICATION DATA: US 07/919,951
; APPLICATION NUMBER: 27-JUL-1992
; FILING DATE: 27-JUL-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LA 9721
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3111 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; US-08-125-077-4

Query Match      6.2%; Score 157; DB 2; Length 3111;
Best Local Similarity 18.5%; Pred. No. 6.8e-05;
Matches 98; Conservative 47; Mismatches 164; Indels 222; Gaps 28;

QY 18 IKSANCPVGTETNTAGQVDDLTGPANVCNCKNFYNNAAAFVPGASTCTPCPQKKDAGA 77
Db 721 VEVQCQPPGY-----TGSSCESCPHRRVNGTIF--GGICEPC----- 757

QY 78 QNPPTANLVTOCNVKCPAGTAAGATDYAAIITECVNCRIN-----FYNE 125
Db 758 -----QC-----FGHAESCDDVTGECLNCKDHTGGYCKCLPFGFYGE 795

QY 126 NAPFNAGASTCTACPVNRVGGALTAGNAATIVAOQNVACPTGTALDDGVTTDYVRSFTE 185
Db 796 PTKGTSEDCQPC-ACPLN-----IPSNFES---PTCHLDRSLG-LICDGCPCVGY--TGPR 843

QY 186 CVKCRNLNYYNGNNGTFFNPFGKSQCTPCPAIKPANVAQAATLGNDAITTAQCN-----V 239
Db 844 CERCAEGYF-----GQPSVPGGS-CQPC-----QCNDNLDFSIPGSCDSLGSCL 887

QY 240 ACPDGTISAAGVNNVAQNTCTNCAPNFYNNAPNFNPGNSTCLPCPANKDYGAETAG 299
Db 888 ICKPGT-----TGRYCELCADGYFGDAVDKNN-----CQPCRCN-----AG 923

QY 300 G-----AATLAKQCNIACPDGTATAGATNYV----- 326
Db 924 GSFSEVCHSQTGQCECRANVOGQRC-D-KKAGTFLQSGARGCVCPCNCNSFGSKSFDCEES 982

QY 327 -----ILOTECLNCAANFYFDGNNFOAGSSRCKACPANKVOGAVATAGGTATLIAQC 378
Db 983 GQWCQCPGVTKKCDRCAHGYP---NFQEGG--CTACECSHLGNNDPKTG-----RC 1030

QY 379 ALECPAGVLTDTSTYKQAASECVKCAANFY-----TTKQTDWVAGIDT 424
Db 1031 I--CPPNTI-----GEKCKCAPNTWGHSTITGCKACNCSTVGSLLDFQCNVNT 1076

QY 425 -----CTSCNKK-----LTSGAEANLPESAKNKIQC 450
Db 1077 GQCNCHPKFSGAKTECSRGHWNYPNCNLDCFLPGLGTATTCDSSETKKCSC 1127

RESULT 12
US-08-317-450B-15
; Sequence 15, Application US/08317450B
; Patent No. 5660982
; GENERAL INFORMATION:
; APPLICANT: Tryggvason, Karl
; APPLICANT: Kallunki, Pekka
; APPLICANT: Pyke, Charles
; TITLE OF INVENTION: Laminin Chains: Diagnostic and
; TITLE OF INVENTION: Therapeutic Use
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BANNER & ALLEGRETTI, LTD.
```

STREET: Ten South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/317,450B
FILING DATE: 04-OCT-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Chao, Mark
REGISTRATION NUMBER: 37,293
REFERENCE/DOCKET NUMBER: 94,778
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-715-1000
TELEFAX: 312-715-1234
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 1111 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-317-450B-15

Query Match 5.9%; Score 150.5; DB 1; Length 1111;
Best Local Similarity 20.0%; Pred. No. 6.5e-05;
Matches 82; Conservative 49; Mismatches 138; Indels 141; Gaps 25;

QY 18 IKSANCPVGTETNTAGQVDDLGTTPANCVCNQKFNYYNNAAFVPGASTCTPCPKKDAGA 77
DB 379 VEQICPCVGYK-----GQF-----CQDCASG--YKRD SARLGPFGTCIPCNQGGGAC 424
QY 78 QNPPATANLVTCQNVKCPAGTAAGATDYAAITTECVNCRINFYNENAPNFNAGASTC 137
DB 425 DPD-----TGDCYSGDENP-----DIECADCPIGFYND--PH---DPRSC 459
QY 138 TACPVRNVGGALTAGNAATIVAQ-----CNVACPTGTALDDGVTTDYVRSFTCEVKCRLN 192
DB 460 KPCPCHN-----GFSCSVIPETEEVVCN-NCPPGV-----TGARCELCA DG 499
QY 193 FYNGNNGNTFPNPKSCTPCPAIKPANVAQATLGNDAITTAOCNVACPDGTISAGVN 252
DB 500 YFGDPFGEHGPVPR-----CQPCQC--NSNVDP SASGNC DRLTGRC-LKCIHNT---AGI- 548
QY 253 NWVAQNTCTNCAPNFYNN-APNFNPGNSTCLPCPANKDYGAETAGGAATLAKQC NIA 311
DB 549 -----YCDQCKAGYFGDPLAP--NPADK-CRACNCN-PMGSEP-----VG 584
QY 312 C-PDGTATIASGATNYVILQTECLNCAANFYDGNFQAGSSRCKAC-----P 357
DB 585 CRSDDGT-----CVCKPFGGPNCEHGAFCSPACYNQVKIQMDQFMQ 626
QY 358 ANKVOGAVATAGGTATLLAQCALECPAGTVLTDGTTSTYKQAASECVKCA 407
DB 627 LQRMALISKAQGGGVVDPDTELE-----GRMQAQEQALQDILRDA 667

RESULT 13
US-08-800-593-15
Sequence 15, Application US/08800593
Patent No. 6143505
GENERAL INFORMATION:
APPLICANT: Tryggvason, Karl
APPLICANT: Kallunki, Pekka
APPLICANT: Pyke, Charles
TITLE OF INVENTION: Laminin Chains: Diagnostic and
Therapeutic Use

NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
STREET: 300 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/800,593
FILING DATE: 18-FEB-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/317,450
FILING DATE: 04-OCT-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Chao, Mark
REGISTRATION NUMBER: 37,293
REFERENCE/DOCKET NUMBER: 94,778-B
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-913-0001
TELEFAX: 312-913-0002
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 1111 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-800-593-15

Query Match 5.9%; Score 150.5; DB 4; Length 1111;
Best Local Similarity 20.0%; Pred. No. 6.5e-05;
Matches 82; Conservative 49; Mismatches 138; Indels 141; Gaps 25;

QY 18 IKSANCPVGTETNTAGQVDDLGTTPANCVCNQKFNYYNNAAFVPGASTCTPCPKKDAGA 77
DB 379 VEQICPCVGYK-----GQF-----CQDCASG--YKRD SARLGPFGTCIPCNQGGGAC 424
QY 78 QNPPATANLVTCQNVKCPAGTAAGATDYAAITTECVNCRINFYNENAPNFNAGASTC 137
DB 425 DPD-----TGDCYSGDENP-----DIECADCPIGFYND--PH---DPRSC 459
QY 138 TACPVRNVGGALTAGNAATIVAQ-----CNVACPTGTALDDGVTTDYVRSFTCEVKCRLN 192
DB 460 KPCPCHN-----GFSCSVIPETEEVVCN-NCPPGV-----TGARCELCA DG 499
QY 193 FYNGNNGNTFPNPKSCTPCPAIKPANVAQATLGNDAITTAOCNVACPDGTISAGVN 252
DB 500 YFGDPFGEHGPVPR-----CQPCQC--NSNVDP SASGNC DRLTGRC-LKCIHNT---AGI- 548
QY 253 NWVAQNTCTNCAPNFYNN-APNFNPGNSTCLPCPANKDYGAETAGGAATLAKQC NIA 311
DB 549 -----YCDQCKAGYFGDPLAP--NPADK-CRACNCN-PMGSEP-----VG 584
QY 312 C-PDGTATIASGATNYVILQTECLNCAANFYDGNFQAGSSRCKAC-----P 357
DB 585 CRSDDGT-----CVCKPFGGPNCEHGAFCSPACYNQVKIQMDQFMQ 626
QY 358 ANKVOGAVATAGGTATLLAQCALECPAGTVLTDGTTSTYKQAASECVKCA 407
DB 627 LQRMALISKAQGGGVVDPDTELE-----GRMQAQEQALQDILRDA 667

RESULT 14
US-08-317-450B-13
Sequence 13, Application US/08317450B


```

: Patent No. 5660982
:
: GENERAL INFORMATION:
:
: APPLICANT: Trygvason, Karl
: APPLICANT: Kallunki, Pekka
: APPLICANT: Pyke, Charles
:
: TITLE OF INVENTION: Laminin Chains: Diagnostic and
: Therapeutic Use
:
: TITLE OF INVENTION: Therapeutic Use
:
: NUMBER OF SEQUENCES: 19
:
: CORRESPONDENCE ADDRESS:
:
: ADDRESSEE: BANNER & ALLEGRETTI, LTD.
:
: STREET: Ten South Wacker Drive
:
: CITY: Chicago
:
: STATE: Illinois
:
: COUNTRY: USA
:
: ZIP: 60606
:
: COMPUTER READABLE FORM:
:
: MEDIUM TYPE: Floppy disk
:
: COMPUTER: IBM PC compatible
:
: OPERATING SYSTEM: PC-DOS/MS-DOS
:
: SOFTWARE: Patentin Release #1.0, Version #1.30
:
: CURRENT APPLICATION DATA:
:
: APPLICATION NUMBER: US/08/317,450B
:
: FILING DATE: 04-OCT-1994
:
: CLASSIFICATION: 435
:
: ATTORNEY/AGENT INFORMATION:
:
: NAME: Chao, Mark
:
: REGISTRATION NUMBER: 37,293
:
: REFERENCE/DOCKET NUMBER: 94,778
:
: TELECOMMUNICATION INFORMATION:
:
: TELEPHONE: 312-715-1000
:
: TELEFAX: 312-715-1234
:
: INFORMATION FOR SEQ ID NO: 13:
:
: SEQUENCE CHARACTERISTICS:
:
: LENGTH: 1193 amino acids
:
: TYPE: amino acid
:
: TOPOLOGY: linear
:
: MOLECULE TYPE: protein
:
: US-08-317-450B-13

```

Query Match	5.9%	Score	150.5	DB 1	Length	1193			
Best Local Similarity	20.0%	pred. No.	7.1e-05						
Matches	82	Conservative	49	Mismatches	138	Indels	141	Gaps	25

Qy	18	IKSANC	PVGT	TTAG	QVDDL	GT	PANC	VNC	QKN	YNN	AAAF	VG	AST	CTCT	CP	OKK	DAGA	77	
		::		::		::	::	::	::	::	::	::	::	::	::	::	::	::	
Db	379	VEQIC	P	GVYK	----	QGF	----	CDC	ASG	--	YKRS	ARL	GGFG	TCIP	CN	CGGG	AC	424	
Qy	78	QNP	PAT	ANL	VTQ	CNV	KCP	PAG	TAI	AGG	ATD	AAI	TE	CNV	CRIN	FNA	NFNA	274	
		::	::	::	::	::	::	::	::	::	::	::	::	::	::	::	::	::	
Db	425	DPD	----	----	----	TG	DCY	S	GDEN	----	DIE	CAD	CP	IGY	ND	--	PH	459	
Qy	138	TAC	PVNR	VGG	ALT	AGN	AAI	VAQ	----	CNV	ACT	GTG	ALD	GGV	TDY	VR	STEC	192	
			::	::	::	::	::	::	::	::	::	::	::	::	::	::	::	::	
Db	460	KPC	CHN	----	----	GF	SCSV	IP	TE	EV	VCN	--	NC	PGV	----	----	TG	499	
Qy	193	FY	NGN	NGT	FP	PGK	SO	CT	PC	PAIK	PAN	QA	ATL	GN	DAT	IT	TAO	252	
		::	::	::	::	::	::	::	::	::	::	::	::	::	::	::	::	::	
Db	500	YFG	DP	FGE	HG	VP	R	----	----	CP	CQC	--	NS	ND	P	S	AG	548	
Qy	253	NW	QA	NTE	CT	NC	AP	FN	YNN	--	AP	FN	PG	SN	TC	LP	C	311	
		::	::	::	::	::	::	::	::	::	::	::	::	::	::	::	::	::	
Db	549	----	----	----	----	Y	DOCK	AGY	FGD	PL	AP	--	NP	ADK	--	CR	AC	584	
Qy	312	C	PD	TA	IA	S	G	AT	NY	VI	LO	TE	CL	NC	AA	NF	YD	757	
Db	585	CR	SD	GT	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
Qy	358	AN	K	VG	A	T	A	T	A	T	A	T	A	T	A	T	A	407	
		::	::	::	::	::	::	::	::	::	::	::	::	::	::	::	::	::	
Db	627	L	Q	R	E	A	L	I	S	K	A	G	D	G	V	V	P	TE	667

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RESULT 15
US-08-800-593-13
; Sequence 13, Application US/08800593
; Patent No. 6143505
; GENERAL INFORMATION:
; APPLICANT: Tryggvason, Karl
; APPLICANT: Kallunki, Pekka
; APPLICANT: Pyke, Charles
; TITLE OF INVENTION: Laminin Chains: Diagnostic and
; TITLE OF INVENTION: Therapeutic Use
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
; STREET: 300 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/800,593
; FILING DATE: 18-FEB-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/317,450
; FILING DATE: 04-OCT-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Chao, Mark
; REGISTRATION NUMBER: 37,293
; REFERENCE/DOCKET NUMBER: 94,778-B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-913-0001
; TELEFAX: 312-913-0002
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1193 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-800-593-13

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Query Match	5.98;	Score 150.5;	DB 4;	Length 1193;
Best Local Similarity	20.08;	Pred. No. 7.le-05;		
Matches	82;	Conservative 49;	Mismatches 138;	Indels 141; Gaps 25;
Qy	18	IKSANCPCVGTETNTAGQVDDLTGT	PANCVCOKNPFYNNAAAFVPGASTCTCPCPKKDAGA	77
Db	379	VEQICPCPGYK-----GQP-	-----CQDCASG--YKRDSARLGPFGTICPCNCQGGGAC	424
Qy	78	QPNPPTANLVTQCNKPCPGATAGGATYAA	ILTECVNCRIINFYENAPNFNAGASTC	137
Db	425	DPD-----	-----TGDCYSGDENP-----DIECADCPIGFYND--PH--DPRSC	459
Qy	138	TACPNVRVGGALTAGNAATIAQA	-----CNVACPTGTALDDGVTTDYVRSFTECVKCELN	192
Db	460	KPCCHN-----	-----GFGCSVLPETEVEVCN--NCPGV-----TGARCELCA	499
Qy	193	FYNGNGNTFPNPGKSOCTPCPAIKPANVAQA	TLGNDATITACCNVACPDGTISAQVN	252
Db	500	YFGDPFGEHGPVRP-----	-----CQPCQC--NSNVDPISAGNCDRLTGRC-LKCIHNT---AGI-	548
Qy	253	NWVAQNTECTNCAPNFYNNN-APNFENPGNSTCL	PCPANKDYGAATAGGAATLAKQCNIA	311
Db	549	-----YCDQCKAGYEGDPLAP--	-----NPADK--CRACNCN--PMGSEP-----VG	584
Qy	312	C-PDGTAIASGATWYILOTQTECLNCAANFY	FDGNFNQAGSSRCCKA-----P	357

Wed Dec 26 12:01:32 2001

Db 585 CRSDGT-----CVCKPGFGPNCHEGAFSCPACYNQVKIQMDQFMQQ 626

Oy 358 ANKYQGAVATAGTATLIAQCALECPAGTVLTDGTTSTYKQAASECYKCA 407

Db 627 LQRNEALISKAGGDDGVVPDTELE-----GRMQQAEQALQDILRDA 667

Search completed: December 26, 2001, 10:35:54
Job time: 145 sec.